

## **Appendix D. Refuge Water Supply Investigation**

### **U.S. DEPARTMENT OF THE INTERIOR BUREAU OF RECLAMATION MID-PACIFIC REGION. 1987. REPORT ON REFUGE WATER SUPPLY INVESTIGATIONS CENTRAL VALLEY HYDROLOGIC BASIN, CALIFORNIA. NOVEMBER 1987.**

#### **Purpose**

This report was prepared to identify potential water sources and delivery systems to provide a dependable supply of good-quality water to the following areas in California:

- ten national wildlife refuges (NWR): Modoc, Sacramento, Delevan, Sutter, Colusa, Kesterson, San Luis, Merced, Kern, and Pixley;
- four state wildlife management areas (WMA): Gray Lodge, Los Banos, Volta, and Mendota; and
- one private wetland area within the Central Valley of California: Grassland Resource Conservation District (RCD).

#### **Need**

A dependable water supply is needed to maintain critical wetland habitat for the migratory waterfowl in the Pacific Flyway of California's Central Valley. Without a dependable supply of good-quality water for refuges, waterfowl numbers could be significantly reduced.

#### **Alternatives**

For each of the fifteen refuges/wetland areas, alternative plans were developed that describe dependable water supply options at four levels. Level 1 would consist of existing firm water supply, Level 2 would consist of current average annual water supply, Level 3 would consist of supply for full use of the existing development, and Level 4 would consist of supply for optimum habitat management.

## Level of Detail of Analysis

Included in this appendix are tables from the report on refuge water supply investigations for the Central Valley that summarize and categorize the level of detail of analysis.